

IN THE CLAIMS

1-9. Canceled.

10. (New) A superconducting magnet comprising:
superconducting coils;
coil containers, each of said coil containers containing
a superconducting coil together with coolant; and
a refrigerator for cooling said coolant,
said coil containers being arranged separately from and
opposite to each other, and a magnetic field space being
formed between opposite sets of coil containers,
wherein a support member is provided for forming a
magnetic circuit so as to arrange said coil containers
separately from and opposite to each other; and
an opening portion provided in said support member having
a connecting passage of said coolant contained in said coil
containers.

11. (New) A superconducting magnet according to claim
10, wherein the coolant in one coil container communicates
with other coil containers through said connecting passages
provided in said opening portions of said support member.

12. (New) A superconducting magnet according to claim 10, wherein lead wires connecting said superconducting coils in said coil containers to each other pass through an inside of said connecting passage.

13. (New) A superconducting magnet according to claim 10, wherein a ferromagnetic member is arranged on a rear side of an opposite surface of each of said coil containers.

14. (New) A superconducting magnet according to claim 10, wherein a coolant tank supplying coolant to said coil container is provided separately from said coil container, and a refrigerator is provided in said coolant tank, and said coolant tank and said coil container are in communication through a coolant circulation passage.

15. (New) A superconducting magnet according to claim 14, wherein a flexible portion is provided in an intermediate portion of said coolant circulation passage.

16. (New) A superconducting magnet comprising:
superconducting coils;

coil containers, each of said coil containers containing a superconducting coil together with coolant; and

a refrigerator for cooling said coolant,

said coil containers being arranged separately from and opposite to each other, and a magnetic field space being formed between opposite sets of coil containers,

wherein a support member is provided for forming a magnetic circuit so as to arrange said coil containers separately from and opposite to each other; and

lead wires connecting said superconducting coils in said coil containers to each other pass through opening portions provided in said support member.

17. (New) A superconducting magnet according to claim 16, wherein the coolant in one coil container communicates with other coil containers through connecting passages provided in an opening portion of said support member.

18. (New) A superconducting magnet according to claim 17, wherein lead wires connecting said superconducting coils in said coil containers to each other pass through an inside of said connecting passages.